

MYPT1 (phospho-Ser507) rabbit pAb

Catalog_no :	AP1412
Applications :	WB
Reactivity :	Human,Mouse,Rat
Category :	抗原抗体
Size :	100µg/50µg/20µg
Gene_name :	PPP1R12A MBS MYPT1
Protein_name :	MYPT1 (Ser507)
Humangene_id :	4659
Humanswissprot_no :	O14974
Mousegene_id :	17931
Mouseswissprot_no :	Q9DBR7
Ratgene_id :	116670
Ratswissprot_no :	Q10728
Immunogen :	Synthesized phosho peptide around human MYPT1 (Ser507)
Specificity :	This antibody detects endogenous levels of Human Mouse Rat MYPT1 (phospho-Ser507)
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Rabbit
Dilution :	WB 1:1000-2000
Purification :	The antibody was affinity-purified from rabbit serum by affinity-chromatography using specific immunogen.
Concentration :	1 mg/ml
Storage_stability :	-20°C/1 year
Other_name :	Protein phosphatase 1 regulatory subunit 12A (Myosin phosphatase-targeting subunit 1) (Myosin phosphatase target subunit 1) (Protein phosphatase myosin-binding subunit)

Molecular Weight : 130KD

Background : protein phosphatase 1 regulatory subunit 12A(PPP1R12A) Homo sapiens Myosin phosphatase target subunit 1, which is also called the myosin-binding subunit of myosin phosphatase, is one of the subunits of myosin phosphatase. Myosin phosphatase regulates the interaction of actin and myosin downstream of the guanosine triphosphatase Rho. The small guanosine triphosphatase Rho is implicated in myosin light chain (MLC) phosphorylation, which results in contraction of smooth muscle and interaction of actin and myosin in nonmuscle cells. The guanosine triphosphate (GTP)-bound, active form of RhoA (GTP.RhoA) specifically interacted with the myosin-binding subunit (MBS) of myosin phosphatase, which regulates the extent of phosphorylation of MLC. Rho-associated kinase (Rho-kinase), which is activated by GTP. RhoA, phosphorylated MBS and consequently inactivated myosin phosphatase. Overexpression of RhoA or activated RhoA in NIH 3T3 cells increased phosph
